

[First Hit](#)

[Fwd Refs](#)

[Previous Doc](#)

[Next Doc](#)

10/822764
[Go to Doc#](#)



Generate Collection

Print

L1: Entry 1 of 4

File: USPT

Feb 4, 2003

US-PAT-NO: 6515621

DOCUMENT-IDENTIFIER: US 6515621 B2

TITLE: Navigation apparatus

DATE-ISSUED: February 4, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Aoyama; Akihiro	Shizuoka-ken			JP

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
JATCO TransTechnology Ltd.	Fuji			JP	03

APPL-NO: 09/989196 [PALM]

DATE FILED: November 21, 2001

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
JP	2000-359168	November 27, 2000

INT-CL-ISSUED: [07] G01 S 5/14, G01 C 21/30

US-CL-ISSUED: 342/357.13; 701/208

US-CL-CURRENT: 342/357.13; 701/208

FIELD-OF-CLASSIFICATION-SEARCH: 342/357.06, 342/357.12, 342/357.13, 701/207, 701/208, 701/213, 701/215

See application file for complete search history.

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

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Clear

	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/>	<u>5646629</u>	July 1997	Loomis et al.	342/357
<input type="checkbox"/>	<u>6024655</u>	February 2000	Coffee	473/407
<input type="checkbox"/>	<u>6381537</u>	April 2002	Chenault et al.	701/209
<input type="checkbox"/>	<u>6385536</u>	May 2002	Kimura	701/209

<input type="checkbox"/>	<u>6415224</u>	July 2002	Wako et al.	701/208
<input type="checkbox"/>	<u>6434481</u>	August 2002	Winter et al.	701/208

ART-UNIT: 3662

PRIMARY-EXAMINER: Phan; Dao

ATTY-AGENT-FIRM: Blank Rome Comisky & McCauley, LLP

ABSTRACT:

A navigation apparatus is equipped with a position acquisition section for acquiring positional information on a self-position, a map hold section for holding a map, and a central control section. The central control section functions as a first display control section for reading out the map containing the self-position from the map hold section and then causing display section to display the map containing the self-position, and also functions as a second display control section for setting a target spot at an arbitrary natural feature on the earth or arbitrary position within the map displayed on the display section and then causing the display section to display the target object. Furthermore, the central control section functions as an event generation section for generating a predetermined game event when the self position arrives at the target spot, or is within a predetermined allowable range, or moves around a predetermined range, and functions as a game process section for performing a game process in response to the generated game event.

6 Claims, 10 Drawing figures

[Previous Doc](#)

[Next Doc](#)

[Go to Doc#](#)

[First Hit](#) [Fwd Refs](#) [Previous Doc](#) [Next Doc](#) [Go to Doc#](#)



Generate Collection

Print

L1: Entry 2 of 4

File: USPT

Nov 20, 2001

US-PAT-NO: 6320495

DOCUMENT-IDENTIFIER: US 6320495 B1

**** See image for Certificate of Correction ****

TITLE: Treasure hunt game utilizing GPS equipped wireless communications devices

DATE-ISSUED: November 20, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sporgis; Peter	London, W1N 3FB			GB

APPL-NO: 09/535371 [PALM]

DATE FILED: March 24, 2000

INT-CL-ISSUED: [07] G08 B 23/00

US-CL-ISSUED: 340/323R; 340/286.02, 340/825.44, 340/825.47, 273/459

US-CL-CURRENT: 340/323R; 273/459, 340/286.02, 340/7.48

FIELD-OF-CLASSIFICATION-SEARCH: 340/323, 340/286.02, 340/825.44, 340/825.47, 340/995, 273/454, 273/459, 342/357.13

See application file for complete search history.

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

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	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/>	<u>5236200</u>	August 1993	McGregor et al.	273/459
<input type="checkbox"/>	<u>5646629</u>	July 1997	Loomis et al.	341/357
<input type="checkbox"/>	<u>5679075</u>	October 1997	Forrest et al.	463/9
<input type="checkbox"/>	<u>5924695</u>	July 1999	Heykoop	273/459
<input type="checkbox"/>	<u>5933100</u>	August 1999	Golding	340/995
<input type="checkbox"/>	<u>5942969</u>	August 1999	Wicks	340/286.02
<input type="checkbox"/>	<u>6023241</u>	February 2000	Clapper	342/357.13

ART-UNIT: 262

PRIMARY-EXAMINER: Wu; Daniel J.

ASSISTANT-EXAMINER: Nguyen; Phung

ATTY-AGENT-FIRM: Gibson Dunn & Crutcher, LLP

ABSTRACT:

A treasure hunt type game that utilizes global positioning satellite ("GPS") equipped wireless communications devices. Players are given clues or directions to proceed along one of many predetermined treasure hunt routes based on their location as determined by the GPS. Based on these clues or directions, players change their locations. Based on these changed locations, as determined by the GPS, additional clues or directions are given to the players until one of the players completes the treasure hunt route and arrives at the treasure to win the game. The game also incorporates other variables in determining the clues to provide to players, such as the location of other players as determined by their GPS devices, the previous locations of the player and other players and whether the player has correctly solved certain clues.

6 Claims, 4 Drawing figures

[Previous Doc](#)

[Next Doc](#)

[Go to Doc#](#)

[First Hit](#) [Fwd Refs](#) [Previous Doc](#) [Next Doc](#) [Go to Doc#](#)

☐ [Generate Collection](#) [Print](#)

L1: Entry 3 of 4

File: USPT

Aug 21, 2001

US-PAT-NO: 6278938

DOCUMENT-IDENTIFIER: US 6278938 B1

TITLE: Method of processing waypoint data for travel guide device

DATE-ISSUED: August 21, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Alumbaugh; Wendell	Southlake	TX	76092-8441	

APPL-NO: 09/572824 [\[PALM\]](#)

DATE FILED: May 17, 2000

PARENT-CASE:

This is a Division of application Ser. No. 09/063,099, filed Apr. 20, 1998, currently pending, which claim benefit of provisional application No. 60,068,775 filed Dec. 24, 1997.

INT-CL-ISSUED: [07] G01 C 21/32

US-CL-ISSUED: 701/208; 701/211, 701/213

US-CL-CURRENT: 701/208; 701/211, 701/213

FIELD-OF-CLASSIFICATION-SEARCH: 342/357.13, 342/357.09, 701/213, 701/208, 701/211
See application file for complete search history.

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

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	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/>	<u>5517419</u>	May 1996	Lanckton et al.	701/216
<input type="checkbox"/>	<u>5543802</u>	August 1996	Villevielle et al.	701/213
<input type="checkbox"/>	<u>5751245</u>	May 1998	Janky et al.	342/357.07
<input type="checkbox"/>	<u>6084542</u>	July 2000	Wright et al.	342/357.13

ART-UNIT: 362

PRIMARY-EXAMINER: Issing; Gregory C.

ATTY-AGENT-FIRM: Pemberton; John D.

ABSTRACT:

A travel guide device includes a GPS receiver for determining a present location. Access to a database of points-of-interest, indexed by GPS location, is provided to permit timely presentation of audio narration or visual display of information relevant to the point-of-interest. A running, general area narrative and/or display may alternatively be provided. The travel guide device may provide educational and entertaining games, including interactive competitive games, relating to the points-of-interest and general area narratives. A navigation function includes automatic, intelligent collection of waypoints and general directions without stored, detailed maps of an area for which directions are being provided. Waypoint collections may be employed to document a route travel, to retrace the route, or for other purposes. A directory of locations such as restaurants, filling stations, and the like may be accessed by the travel guide device to determine GPS coordinates for a desired destination for general directions navigation. Communication facilities integrated into the travel guide device provide optional communications services, such as downloading a local directory for an area being entered.

16 Claims, 13 Drawing figures

[Previous Doc](#)

[Next Doc](#)

[Go to Doc#](#)

[First Hit](#) [Fwd Refs](#)
End of Result Set

[Previous Doc](#)

[Next Doc](#)

[Go to Doc#](#)

☐ [Generate Collection](#) [Print](#)

L1: Entry 4 of 4

File: USPT

Aug 24, 1999

US-PAT-NO: 5942969

DOCUMENT-IDENTIFIER: US 5942969 A

TITLE: Treasure hunt game using pager and paging system

DATE-ISSUED: August 24, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wicks; James E.	San Francisco	CA		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Sony Corporation				JP	03
Sony Electronics	Park Ridge	NJ			02

APPL-NO: 08/792858 [\[PALM\]](#)

DATE FILED: January 23, 1997

INT-CL-ISSUED: [06] [G08](#) [B](#) [9/00](#)

US-CL-ISSUED: 340/286.02; 340/323R, 340/825.44, 340/825.47, 273/454

US-CL-CURRENT: [340/286.02](#); [273/454](#), [340/323R](#), [340/7.1](#), [340/7.27](#), [340/7.55](#),
[340/825.49](#)

FIELD-OF-CLASSIFICATION-SEARCH: 340/286.02, 340/311.1, 340/323R, 340/825.44,
340/825.47, 340/825.46, 340/905, 273/454, 273/455, 273/457, 273/460
See application file for complete search history.

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

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	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/>	4415065	November 1983	Sandstedt	
<input type="checkbox"/>	4496149	January 1985	Schwartzberg	273/454
<input type="checkbox"/>	4644351	February 1987	Zabarsky et al.	340/825.44
<input type="checkbox"/>	4951039	August 1990	Schwendeman et al.	

<input type="checkbox"/>	<u>4961575</u>	October 1990	Perry	273/454
<input type="checkbox"/>	<u>5045850</u>	September 1991	Andros et al.	340/825.44
<input type="checkbox"/>	<u>5142279</u>	August 1992	Jasinski et al.	340/825.44
<input type="checkbox"/>	<u>5173688</u>	December 1992	DeLuca et al.	
<input type="checkbox"/>	<u>5236200</u>	August 1993	McGregor et al.	273/459
<input type="checkbox"/>	<u>5331431</u>	July 1994	Jasinski	
<input type="checkbox"/>	<u>5446678</u>	August 1995	Saltzstein et al.	
<input type="checkbox"/>	<u>5452356</u>	September 1995	Albert	
<input type="checkbox"/>	<u>5481255</u>	January 1996	Albert et al.	
<input type="checkbox"/>	<u>5491785</u>	February 1996	Robson et al.	
<input type="checkbox"/>	<u>5495344</u>	February 1996	Callaway, Jr. et al.	
<input type="checkbox"/>	<u>5508695</u>	April 1996	Nelson et al.	
<input type="checkbox"/>	<u>5535428</u>	July 1996	King et al.	
<input type="checkbox"/>	<u>5613212</u>	March 1997	Wong et al.	340/311.1

ART-UNIT: 276

PRIMARY-EXAMINER: Hofsass; Jeffery A.

ASSISTANT-EXAMINER: Woods; Davetta

ATTY-AGENT-FIRM: Kananen; Ronald P.

ABSTRACT:

A game can be played using pagers and a paging system. Game participants receive information and clues from the paging system directing them to a particular landmark or location. Once there, the participants signal the system with a response which is dependent on their being at the correct location. The paging system then additionally determines that the participant is transmitting from roughly the correct location. When the participant is thus verified as being at the correct location, the next clue is transmitted to the participant. This continues until a participant correctly deciphers all the clues and arrives at the end of the game.

12 Claims, 3 Drawing figures

[Previous Doc](#)

[Next Doc](#)

[Go to Doc#](#)